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2023 Ranger

Specs

Key product specifications include vehicle dimensions and capacities, detailed powertrain information, transmission gear ratios and more.

10-Speed Automatic Transmission Specifications
150-Amperes Alternator
4-/7-Pin Trailer Towing Wiring Harness
Accessory Reserve Capacity (ARC) Calculation
Alternator Specifications
Base Curb Weight
Battery Applications
Brake Specifications
Cold Weather Recommendations
Cooling System Specifications
Engine
Frame Specifications
Front Axle Specifications
Fuel System Data
Fuel Tank Capacity
Gross Axle Weight
Gross Axle Weight Rating (GAWR)
Gross Combination Weight (GCW)
Gross Combination Weight Rating (GCWR)
Gross Vehicle Weight (GVW)
Gross Vehicle Weight Rating (GVWR)
GVWR/Payload/Springs/Base Curb Weight
Interior Dimensions
Interior Volume
Light Specifications and Usage
Maximum Payload Weight Rating
Maximum Payload Weight Ratings
Option Weights
Passenger Weight
Payload
Pickup Box Dimensions
Ranger 4x2 Styleside Pickup
Ranger 4x4 Styleside Pickup
Rear Axle Specifications
Shock Absorber Specifications
Spring Specifications — Front Coil
Spring Specifications — Rear Main Leaf, Parabolic Linear
Standard Lighting/Reflector Equipment
Steering
SuperCab Dimensions
SuperCrew Dimensions
Tire Specifications
Tongue Weight
Trailer Towing/Camper Information
Trailer Weight
Transfer Case Specifications
Truck “Nominal Tonnage”
Vehicle Class Ratings by GVWR
Weight Distribution
Wheel Specifications

2023 Ranger > Specs

Dimensions/Weights/Capacities

Accessory Reserve Capacity (ARC) Calculation
Base Curb Weight
Fuel Tank Capacity
Gross Axle Weight
Gross Axle Weight Rating (GAWR)
Gross Combination Weight (GCW)
Gross Combination Weight Rating (GCWR)
Gross Vehicle Weight (GVW)
Gross Vehicle Weight Rating (GVWR)
GVWR/Payload/Springs/Base Curb Weight
Interior Dimensions
Interior Volume
Maximum Payload Weight Rating
Maximum Payload Weight Ratings
Option Weights
Passenger Weight
Payload
Pickup Box Dimensions
SuperCab Dimensions
SuperCrew Dimensions
Tongue Weight
Trailer Weight
Truck “Nominal Tonnage”
Vehicle Class Ratings by GVWR
Weight Distribution

2023 Ranger > Specs > Dimensions/Weights/Capacities

SuperCab Dimensions

Drive	4x2	4x4

Cargo Box (ft.)		6.0	6.0
Wheelbase (in.)		126.8	126.8
Description (in.)			
	Cab to Axle	31.3	—
	Front Overhang	35.8	35.8
	Front Bumper to Back of Cab	132.1	132.1
	Overall Length	210.8	210.8
	Rear Overhang	48.2	48.2
	Overall Width (with mirrors/mirrors folded)	85.8/77.8	85.8/77.8
	Overall Height(1) (with roof antenna/without)	70.7/72.9	71.1/73.6
	Track Width – Front/Rear	61.4/61.4	61.4/61.4
	Ground Clearance	8.4	8.9
	Approach Angle (degrees)	27.9	28.7
	Breakover Angle (degrees)	22.7	21.5
	Departure Angle (degrees)	25.2	25.4

(1) The height data shown represents dimensions of a nominal vehicle with no options. Actual height may vary due to production tolerances.

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Dimensions/Weights/Capacities

SuperCrew Dimensions

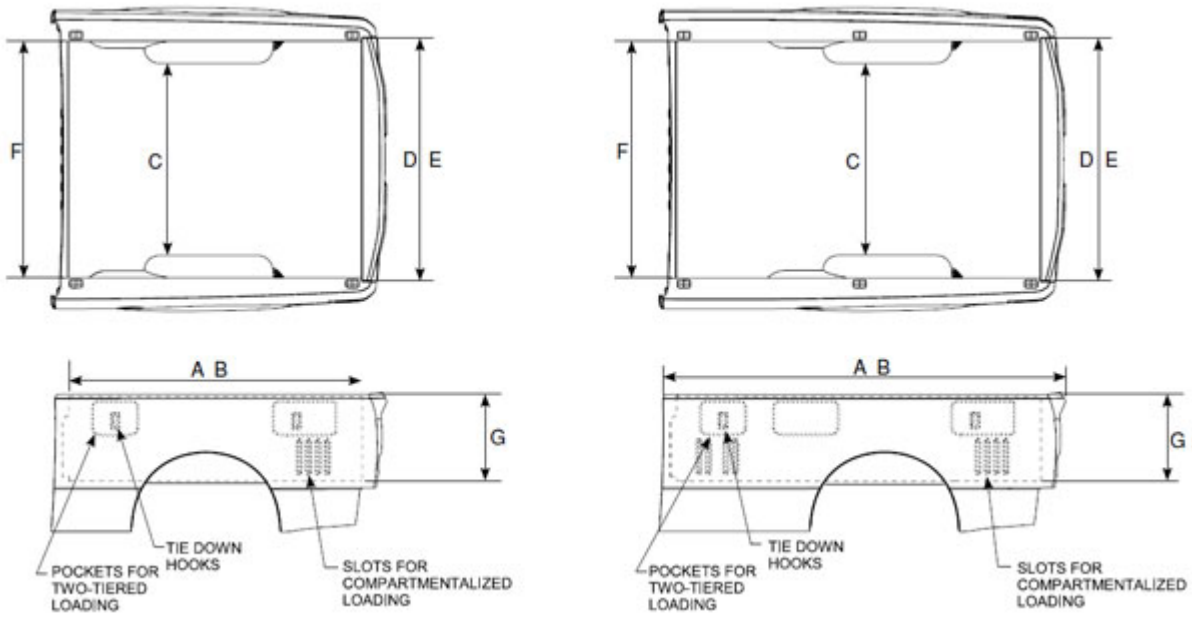
Drive		4x2	4x4	4x4 Tremor
Cargo Box (ft.)		5.0	5.0	5.0
Wheelbase (in.)		126.8	126.8	126.8
Description (in.)				
	Front Overhang	35.8	35.8	35.8
	Front Bumper to Back of Cab	143.8	143.8	143.8
	Overall Length	210.8	210.8	210.8
	Rear Overhang	48.2	48.2	48.2
	Overall Width (with mirrors/mirrors folded)	85.8/77.8	85.8/77.8	85.8/77.8
	Overall Height(1) (with roof antenna/without)	73.3/71.1	74.0/71.5	75.4/73.2
	Track Width – Front/Rear	61.4/61.4	61.4/61.4	62.4/62.4
	Ground Clearance	8.4	8.9	9.7
	Approach Angle (degrees)	27.9	28.7	30.9
	Breakover Angle (degrees)	22.7	21.5	24.2
	Departure Angle (degrees)	25.2	25.4	25.5
	Open Tailgate to Ground	33.1	33.8	34.6

(1) The height data shown represents dimensions of a nominal vehicle with no options. Actual height may vary due to production tolerances.

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Dimensions/Weights/Capacities

Pickup Box Dimensions



Box Size (ft.)		5.0[1]	6.0[2]
Cargo Volume[3] (cu. ft.)		43.3	51.8
Code	Description (in.)		
A	Cargo Box Inside Length @ Floor	61.0	72.8
B	Cargo Box Length @ Top	58.2	70.0
C	Cargo Width @ Wheelhouse	44.8	44.8
D	Rear Opening Width @ Floor	55.4	55.4
E	Rear Opening Width @ Top	55.5	55.5
F	Cargo Body Maximum Inside Width	61.4	61.4
G	Cargo Body Height with Molding	20.9	20.8

(1) SuperCrew only.

(2) SuperCab only.

(3) Does not include allowances for wheelhouses.

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Dimensions/Weights/Capacities

Interior Dimensions

Description (in.)	SuperCab	SuperCrew
Head Room (front, maximum)	39.8	39.8
Head Room (rear)	35.9	38.3
Leg Room (front)	43.1	43.1
Leg Room (rear)	30.4	34.5
Shoulder Room (front)	56.6	56.7
Shoulder Room (rear)	55.2	56.3
Hip Room (front)	55.8	55.8
Hip Room (rear)	55.3	53.5

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Dimensions/Weights/Capacities

Interior Volume

SUPERCAB

Cab Position	Volume (cu. ft.)
Front Passenger	54.4
Rear Passenger	34.8
Total Passenger	89.2
Cargo Volume Behind First Row, Rear-Seat Cushion Folded Up	26.5

SUPERCREW

Cab Position	Volume (cu. ft.)
Front Passenger	54.5
Rear Passenger	43.1
Total Passenger	97.6
Cargo Volume Behind First Row, Rear-Seat Cushion Folded Up	33.9

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Dimensions/Weights/Capacities

Fuel Tank Capacity

Cab	Location	Capacity (gal.)
SuperCab	Midship	18.0
SuperCrew	Midship	18.0

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

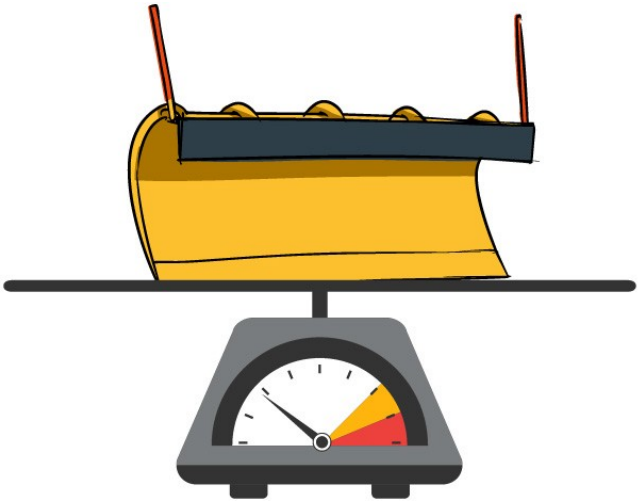
2023 Ranger > Specs > Dimensions/Weights/Capacities > General Truck Payload Information

Accessory Reserve Capacity (ARC) Calculation

This section provides the information needed to calculate the effect that vehicle options have on the payload capacity of Ford commercial vehicles.

This information is useful when the plan is to add aftermarket accessories or haul cargo at or near the vehicle's maximum capacity.

This section includes charts for each series, listing the maximum allowable weights for each GVWR.



ACCESSORY RESERVE CAPACITY

You can help prospective buyers estimate the total weight of accessories, equipment and modifications that may be added to the completed vehicle.

Ford vehicles are certified for compliance with the following FMVSS (Federal Motor Vehicle Safety Standards) or CMVSS (Canadian Motor Vehicle Safety Standards):(1)

- 204 — Steering Column Rearward Displacement
- 208 — Occupant Crash Protection
- 212 — Windshield Mounting
- 219 — Windshield Zone Intrusion
- 301 — Fuel System Integrity
- 303 — CNG Fuel System Integrity (Canadian Standard 301.2)

The total added accessory weight must not exceed the allowable weight shown in the tables. Awareness is critical if the vehicle is going to be modified or have accessories installed.

If the modification or installation of accessories or equipment causes the unloaded weight of the vehicle, as revised with the added equipment, to exceed the test vehicle weight, the U.S. vehicle alterer(2) may be responsible to certify the altered vehicle according to Title 49, Code of Federal Regulations 567.7 and 568.8. A Canadian vehicle alterer may be responsible to certify the altered vehicle according to Section 6 of the Canadian Motor Vehicle Safety Regulations.

In this section, each vehicle has a worksheet that addresses Total Accessory Reserve Capacity only. It does not consider Front Axle Accessory Reserve Capacity and does not include DSO option weights in the calculations.

To approximate the amount of accessory equipment or modification weight that can be added to a Ford light truck without exceeding the test vehicle weight, calculate an estimated Total Accessory Reserve Capacity as follows:

1. Determine the "Total Actual Regular Production Option Content Weight" of the desired regular production options from the corresponding Accessory Reserve Capacity Calculation/Worksheet on the following page
2. Subtract the "Total Actual Regular Production Option Content Weight" from the "Maximum Allowable Weight (Regular Production Options & Aftermarket Equipment)" for the appropriate model. The difference is the estimated "Total Accessory Reserve Capacity"

	Maximum Allowable Weight (Regular Production Options & Aftermarket Equipment)
–	Total Actual Regular Production Option Content Weight
=	Total Accessory Reserve Capacity

Warning: The Accessory Reserve Capacity weight information addresses FMVSS and CMVSS Nos. 204, 208, 212, 219, 301 and 303 compliance only. For all light-duty trucks with a GVW rating under 8,500 lbs., federally certified trucks with a GVW rating of 8,500 to 10,000 lbs. that are optionally emissions certified to light-duty standards and all California complete vehicles with a GVW rating of 14,000 lbs. or less, if more than 500 lbs. is added to the vehicle's "maximum vehicle weight,"(3) the modifier may be responsible for recertification to the applicable EPA or CARB emissions standards.

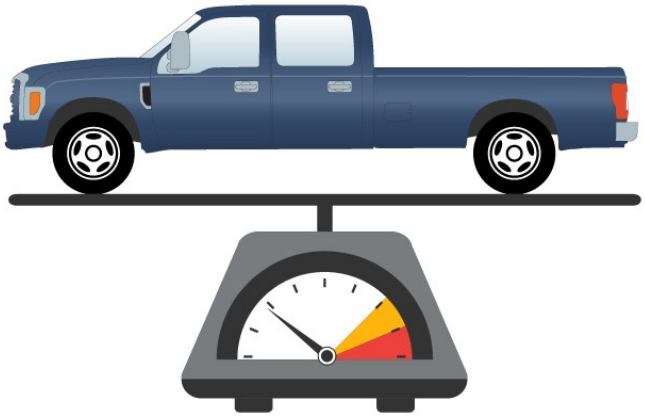
(1) Ford Motor Company's certification of compliance with FMVSS/CMVSS is based on specific vehicle test weights. These standards are applicable to completed vehicles of 10,000-lb. GVWR or less. Maximum allowable weights shown in the tables for vehicles above 10,000-lb. GVWR are maximum recommended values for optimum performance, durability and customer satisfaction.

(2) The same procedure to estimate the "Total Accessory Reserve Capacity" is recommended to completed vehicle alterers in Canada.

(3) **Important:** "Maximum vehicle weight" is calculated in accordance with the definition provided in an EPA guidance letter dated July 13, 1979, from C.N. Freed of the EPA to M.H. McBride, legal counsel of the Recreation Vehicle Industry Association. The preceding conditions are based on that letter and on EPA Advisory Circular No. 64 — a March 7, 1977, publication that provides guidance on the need for separate certification of vehicles modified after original manufacture, but prior to sale and delivery to the ultimate purchaser. Additional guidance or questions concerning EPA's policies with respect to alterers of completed vehicles should be directed to legal counsel or the Environmental Protection Agency.

Base Curb Weight

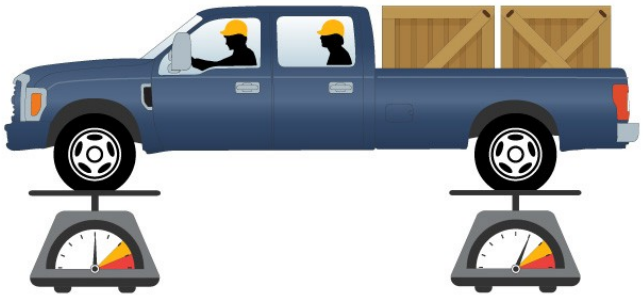
- The weight of the vehicle including standard equipment, oil, lubricants and a full tank of fuel. It does not include the weight of driver, passengers, cargo or any optional or aftermarket equipment
- **Base curb weights for each engine/standard equipment transmission combination are listed in the Weight Ratings pages of each vehicle section (see Maximum Payload Weight Ratings for reference)**
- Actual Regular Production Option Content Weights can be found in the charts under Actual Regular Production Option Content Weights



2023 Ranger > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Gross Axle Weight

The total weight placed on each axle of the vehicle (front and rear).



2023 Ranger > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Gross Axle Weight Rating (GAWR)

The maximum allowable weight to be placed on an individual axle (front or rear). Gross Axle Weight Ratings are provided for both front and rear axles.

2023 Ranger > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Gross Combination Weight (GCW)

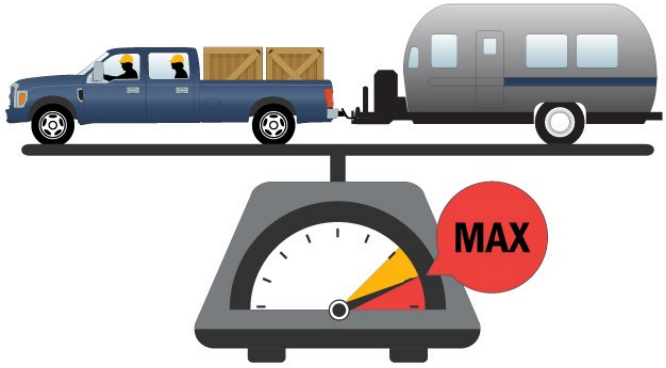
Gross vehicle weight plus the trailer weight.

2023 Ranger > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Gross Combination Weight Rating (GCWR)

The maximum allowable weight of the towing vehicle, the trailer and all associated passengers, cargo and equipment.

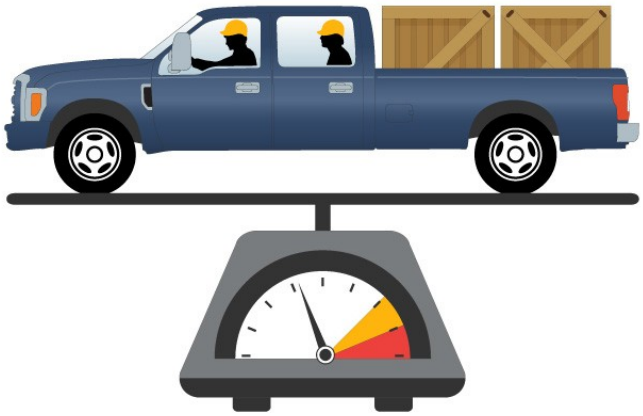
The point to remember is that the actual weights should never exceed the listed weight ratings. If recommended weight ratings are exceeded, the vehicle could be disqualified for warranty coverage.



2023 Ranger > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Gross Vehicle Weight (GVW)

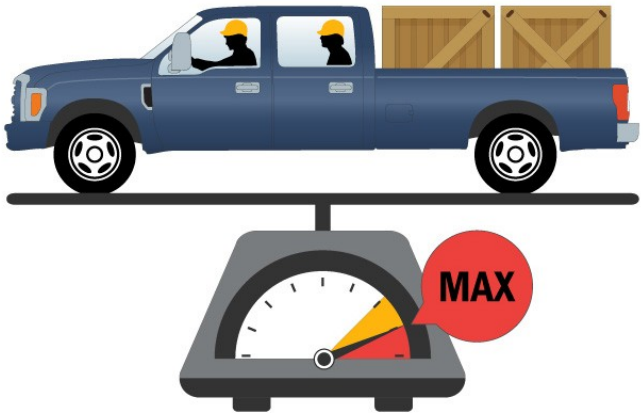
The weight of the vehicle including driver, passengers, optional and aftermarket equipment, and all cargo.



2023 Ranger > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Gross Vehicle Weight Rating (GVWR)

The maximum allowable weight of the fully loaded vehicle (including passengers and cargo).



2023 Ranger > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Maximum Payload Weight Rating

This is the advertised payload rating. It is the maximum allowable payload for the truck, including driver, passengers, optional and aftermarket equipment, and cargo. The weight of the engine and its standard transmission is already factored into the Maximum Payload Weight Rating. If the engine is also available with an optional transmission, that engine/transmission weight can be found in the Actual Regular Production Option Content Weight charts.

Vehicle Payload Calculation	Front/Total (lbs.)
Maximum Payload Weight Rating(1)	____ /____
Less Total Actual Regular Production Option Content Weight (from Line A, Payload/GVWR Worksheet)	____ /____
Equals Net Total Vehicle Payload (Front and rear axles and spring capacities will be sufficient to carry this payload uniformly distributed in vehicle cargo area)	____ /____

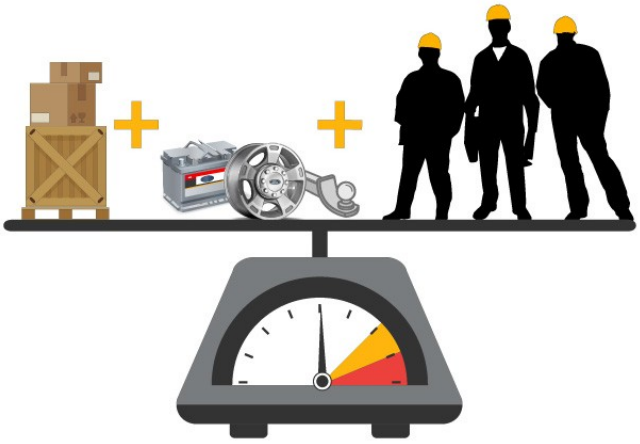
(1) Weight for driver and passengers must be deducted. Refer to the individual vehicle weight rating pages for maximum payload weight ratings. Refer to Regular Production Option Content Weight.

NOTE: Front springs are computer selected to meet specific option requirements for each vehicle; HD front springs are standard if vehicle option weights require.

2023 Ranger > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Maximum Payload Weight Ratings

The Payload Weight Ratings and the Max. Option Weight/Max. Total Accessory Reserve Capacity (ARC) Weight Charts(1) are published and can be found in the weight ratings pages of the individual vehicle sections. This information is grouped together with other model, engine/transmission and maximum gross vehicle weight rating (GVWR) data for ease of use.

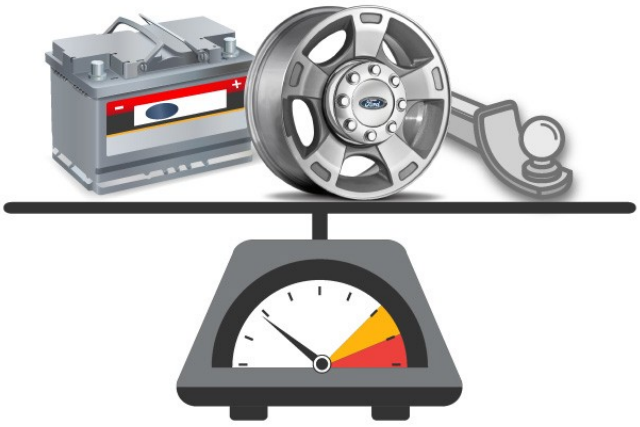


(1) OPT/ARC Weight is the maximum allowable weight for regular production options (OPT) and aftermarket equipment. Accessory Reserve Capacity (ARC) for models with standard equipment and the engine/transmission combination indicated.

2023 Ranger > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Option Weights

The weight of any added equipment that is not included in the base curb weight.



2023 Ranger > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

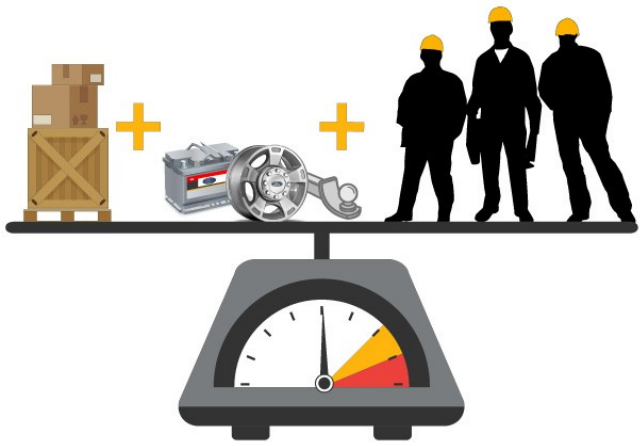
Passenger Weight

Defined as 150 lbs. multiplied by the number of safety-belted seating positions, including the driver, that the vehicle can carry.

2023 Ranger > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Payload

- Maximum payload is defined as the weight of all passengers, optional and aftermarket equipment, and cargo
- Net payload is defined as the weight that can be placed in the truck after subtracting for driver, passengers, and optional and aftermarket equipment



2023 Ranger > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

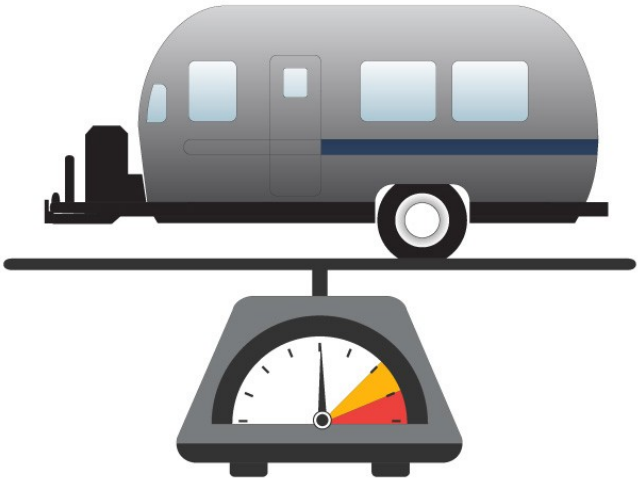
Tongue Weight

The amount of the trailer's weight that bears down on the trailer hitch (10 to 15% of the total loaded conventional trailer weight or 15 to 25% of the total loaded 5th-wheel trailer weight).

2023 Ranger > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Trailer Weight

The weight of a fully loaded trailer, including all attachments, lights, etc.



2023 Ranger > Specs > Dimensions/Weights/Capacities > General Truck Payload Information

Truck “Nominal Tonnage”

“Nominal Tonnage” is a term that Ford and other manufacturers have historically used to **generally categorize** the load capacity of a vehicle series; it is not a term defined by federal or state law.

Our COV (Certificate of Origin for a Vehicle) includes each particular vehicle’s shipping weight, as well as the vehicle’s gross vehicle weight rating or GVWR (from which one can determine the particular vehicle’s rated carrying capacity, including driver, passengers, fluids, body upfit [if applicable] and aftermarket accessories). The COV also includes the vehicle’s “Nominal Tonnage.”

“Nominal Tonnage” provides the **general** usable cargo capability that most (but not all) of the vehicles with the designated nominal tonnage can expect to handle. That is, nominal tonnage states the general load capacity for each vehicle series, although particular vehicles may have a higher (or in some circumstances, lower) load capacity based on the specifications of the particular vehicle.

Relevant Vehicle Series/Nominal Tonnage Relationship Categories	
Nominal Tonnage	**Vehicle**
½	Ranger, F-150, Transit Connect, Transit Passenger Van
¾	E-350 Cutaway/Stripped Chassis, Transit-150 Cargo Van/Crew Van/Passenger Van, Transit-250 Cargo Van/Crew Van, Transit-350 Cargo Van/Crew Van/Passenger Van (GVWR 9,499 lbs.), Transit-250 Cutaway/Chassis Cab, F-250 Pickup
1	E-450 Cutaway/Stripped Chassis, Transit-350 Cargo Van/Crew Van/Passenger Van (GVWR 9,500 lbs.), Transit-350 Cutaway/Chassis Cab, F-350 Pickup, F-350 Chassis Cab
1½	F-450 Pickup, F-450 Chassis Cab
2	F-550 Chassis Cab

2023 Ranger > Specs > Dimensions/Weights/Capacities > General Truck Payload Information

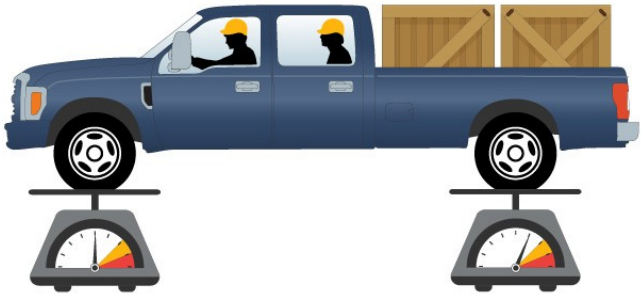
Vehicle Class Ratings by GVWR

Weight Class	GVWR Range (lbs.)	Vehicle/Model
1	Up to 6,000	Transit Connect Cargo Van (5,110–5,302 lbs.) Transit Connect Passenger Wagon (5,302–5,420 lbs.)
2	6,001 to 10,000	Ranger (6,050 lbs.) Transit-150 Cargo Van/Passenger Van (8,670/8,550 lbs.) Transit-250 Cargo Van/Crew Van (9,070 lbs.) Transit-350 Cargo Van/Crew Van (9,250–9,950 lbs.) Transit-350 Passenger Van (9,250–9,550 lbs.) Transit-250 Cutaway/Chassis Cabs (9,070 lbs.) Transit-350 Cutaway/Chassis Cabs (9,500 and 9,950 lbs.) E-Transit T350 Cargo Van, Chassis Cab and Cutaway (9,500 lbs.) F-150 (6,070–7,850 lbs.) F-250 Pickup (9,900–10,000 lbs.) F-350 Pickup (10,000 lbs.) F-350 Chassis Cab SRW (9,800–10,000 lbs.)
3	10,001 to 14,000	E-350 Cutaway (10,050–12,500 lbs.) E-350 Stripped Chassis (11,500–12,500 lbs.) Transit-350 Cargo Van/Crew Van/Passenger Van (10,360 lbs.; 11,000 lbs. [Cargo Van only]) Transit-350 Cutaway/Chassis Cab (10,360 and 11,000 lbs.) F-250 Pickup (10,400–10,800 lbs.) F-350 SRW Pickup (10,100–12,400 lbs.) F-350 DRW Pickup (13,000(1)–14,000 lbs.) F-350 Chassis Cab SRW (10,500–11,500 lbs.) F-350 DRW Chassis Cab (14,000 lbs.) E-450 Cutaway (14,000 lbs.) E-450 Stripped Chassis (14,000 lbs.) F-450 Pickup (14,000 lbs.)
4	14,001 to 16,000	E-450 Cutaway (14,200–14,500 lbs.) E-450 Stripped Chassis (14,200–14,500 lbs.) F-450 Chassis (15,000–16,000 lbs.) F59 Commercial Stripped Chassis (16,000 lbs.) F53 Motorhome Chassis (16,000 lbs.)
5	16,001 to 19,500	F-450 Chassis Cab (16,500 lbs.) F-550 (17,500–19,500 lbs.) F59 Commercial Stripped Chassis (19,500 lbs.) F53 Motorhome Chassis (18,000 lbs.)
6	19,501 to 26,000	F-600 (22,000 lbs.) F-650 Gasoline (22,000–26,000 lbs.)/Diesel (22,000–26,000 lbs.) F59 Commercial Stripped Chassis (22,000 lbs.) F53 Motorhome Chassis (20,500–26,000 lbs.)
7	26,001 to 33,000	F-650 (27,500–29,000 lbs. Gas and Diesel) F-750 (31,000–33,000 lbs. Gas and Diesel)
8	33,001 and above	F-750 (34,200–37,000 lbs. Diesel)

(1) 13,000 lbs. Pickup Box Delete only.

Weight Distribution

That portion of a vehicle's total weight that will be supported by each axle and each tire. Proper distribution of vehicle weight is critical to braking, handling and to the service life of components such as axles, springs, bearings and tires.



2023 Ranger > Specs > Dimensions/Weights/Capacities

GVWR/Payload/Springs/Base Curb Weight

Cab/Drive	Engine	Max. GVWR (lbs.)	Max. Payload(1) (lbs.)	Max. GAWR(2) (lbs.)		Base Curb Weight (lbs.)		
				Front	Rear	Front	Rear	Total
SuperCab 4x2	2.3L EcoBoost I-4	6,050	1,905	2,885	3,500	2,368	1,777	4,145
SuperCrew 4x2	2.3L EcoBoost I-4	6,050	1,818	2,930	3,500	2,377	1,855	4,232
SuperCab 4x4	2.3L EcoBoost I-4	6,050	1,696	3,108	3,370	2,544	1,810	4,354
SuperCrew 4x4	2.3L EcoBoost I-4	6,050	1,609	3,130	3,370	2,554	1,887	4,441

(1) Load rating represents maximum allowable weight of people, cargo and body equipment and is reduced by available equipment weight. See label on doorjamb for carrying capacity of a specific vehicle.

(2) Gross Axle Weight Rating (GAWR) is determined by the rated capacity of the minimum component of the axle system (axle, computer-selected springs, wheels, tires) of a specific vehicle. Front and rear GAWRs will, in all cases, sum to a number equal to or greater than the GVWR for the particular vehicle. Maximum loaded vehicle (including passengers, equipment and payload) cannot exceed the GVWR.

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs

Standard Equipment

Ranger 4x2 Styleside Pickup

Ranger 4x4 Styleside Pickup

2023 Ranger > Specs > Standard Equipment

Ranger 4x2 Styleside Pickup

POWERTRAIN		Refer to Ordering Guide for 50 States Usage
Engine	Type	2.3L EcoBoost I-4
Transmission	Type	10R80 10-speed auto OD
AXLES:		
Front Axle	Type	Long-spindle double-wishbone, coil-over-shock IFS
	Capacity (Rating @ Ground)	2,885 lbs. (SuperCab)/3,130 lbs. (SuperCrew)
Rear Axle	Type	Semi-floating
	Capacity (Rating @ Ground)	3,500 lbs.
BRAKES:		
Front/Rear Disc	Type	Vented, twin-piston front and single-piston rear caliper
	Rotor Diameter — Front/Rear	12.2"/12.1"
Power Assist Unit	Type	Tandem-diaphragm
	Effective Diameter — Front/Rear	9.0" front/9.0" rear
Anti-Lock Brake System		4-wheel (4-channel with AdvanceTrac [ESC] Electronic Stability Control)
Parking Brake (Rear Brakes)		Mechanical integrated
ELECTRICAL:		
Alternator	Rating	150-amp, 2,025-watt
Battery	Type	Maintenance-free (Battery Saver System standard)
	Rating	70-AH, 760 CCA; 80-AH, 800 CCA
Harnesses	Type	4-pin connector
FUEL TANK:	Capacity	18.0 gal.
JACK:	Capacity	1,800/3,968 (kg/lbs.)
STEERING:	Type	Power, rack-and-pinion; electric power-assist
	Ratio	17.7:1
SUSPENSION:		
Frame	Type	Fully boxed, modular high-strength steel with 6 crossmembers
	Section Modulus (cu. in.)	See frame specifications
Springs, Front	Type	Coil, computer-selected
	Rating @ Ground (min.)	NA
Springs, Rear	Type	Leaf, two-stage parabolic with linear-rate, computer-selected
	Rating @ Ground (min.)	3,370 lbs.
Shock Absorbers	Gas-type (Size — Front/Rear)	1.77"/1.26"
Stabilizer Bar	Position/Diameter/Type	Front/27mm/solid
TIRES:	Type	Steel-belted radial all-season
	Size	Five 255/70R16 BSW
	Spare Tire Carrier	Rear underframe, winch-type with safety catch (locking-type)
WHEELS:	Type and Size	16" x 7" silver-painted styled steel (spare wheel will vary by model)

NOTE: Refer to Weight Ratings for Standard & Available Weight Rating Specifications (GVWR/Payload/Spring & GAWR/Base Curb Weight).

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Standard Equipment

Ranger 4x4 Styleside Pickup

POWERTRAIN		Refer to Ordering Guide for 50 States Usage
Engine	Type	2.3L EcoBoost I-4
Transmission	Type	10R80 10-speed auto OD
Transfer Case	Type	Electronic shift
	Low/High Gear Ratio	2.72:1/1.00:1
AXLES:		
Front Axle	Type	Long-spindle double-wishbone, coil-over-shock IFS
	Capacity (Rating @ Ground)	3,108 lbs. (SuperCab)/3,130 lbs. (SuperCrew)
Rear Axle	Type	Semi-floating
	Capacity (Rating @ Ground)	3,370 lbs.
BRAKES:		
Front/Rear Disc	Type	Vented, twin-piston front and single-piston rear caliper
	Rotor Diameter — Front/Rear	12.2"/12.1"
Power Assist Unit	Type	Tandem-diaphragm
	Effective Diameter — Front/Rear	9.0" front/9.0" rear
Anti-Lock Brake System		4-wheel (4-channel with AdvanceTrac [ESC] Electronic Stability Control)
Parking Brake (Rear Brakes)		Mechanical integrated
ELECTRICAL:		
Alternator	Rating	150-amp, 2,025-watt
Battery	Type	Maintenance-free (Battery Saver System standard)
	Rating	70-AH, 760 CCA; 80-AH, 800 CCA
Harnesses	Type	4-pin connector
FUEL TANK:	Capacity	18.0 gal.
JACK:	Capacity	1,800/3,968 (kg/lbs.)
STEERING:	Type	Power, rack-and-pinion; electric power-assist
	Ratio	17.7:1
SUSPENSION:		
Frame	Type	Fully boxed, modular high-strength steel with 6 crossmembers
	Section Modulus (cu. in.)	See frame specifications
Springs, Front	Type	Coil, computer-selected
	Rating @ Ground (min.)	NA
Springs, Rear	Type	Leaf, two-stage parabolic linear-rate, computer-selected
	Rating @ Ground (min.)	3,370 lbs.
Shock Absorbers	Gas-type (Size — Front/Rear)	1.77"/1.26"
Stabilizer Bar	Position/Diameter/Type	Front/27mm/solid
TIRES:	Type	Steel-belted radial
	Size	Five 255/70R16 BSW

	Spare Tire Carrier	Rear underframe, winch-type with safety catch (locking-type)
WHEELS:	Type and Size	16" x 7" silver-painted styled steel (spare wheel will vary by model)

NOTE: Refer to Weight Ratings for Standard & Available Weight Rating Specifications (GVWR/Payload/Spring & GAWR/Base Curb Weight).

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs

Powertrain

10-Speed Automatic Transmission Specifications

Cooling System Specifications

Engine

Fuel System Data

Transfer Case Specifications

2023 Ranger > Specs > Powertrain

10-Speed Automatic Transmission Specifications

Make/Type	Ford 10-speed Automatic Overdrive (10R80)
Engine	2.3L EcoBoost I-4
Ratios (to 1)	
1st	4.696
2nd	2.985
3rd	2.146
4th	1.769
5th	1.520
6th	1.275
7th	1.000
8th	0.854
9th	0.689
10th	0.636
Reverse	4.866
Converter Size and Type	238 mm double damper with pendulum
Converter Stall Ratio	1.83:1
Lubricant Capacity (qt.)	12.4 with top off for cooler
Planetary	Simple (four)
Oil Cooler	Yes, fastners to transmission
Speed Sensor System	Internal speed sensors (four)
Fully Electronic Shift Scheduling	Yes
Weight (with Fluid)	239 lbs. (4x2)/235 lbs. (4x4)

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Powertrain

Engine

Driveline Layout	**Front Engine, Rear Wheel (RWD) or 4x4**
Engine Type	**2.3L EcoBoost I-4**
Displacement (liters/cu. in.)	2.3/140
Horsepower (@ rpm)	270 @ 5,500
Torque (lb.-ft. @ rpm)	310 @ 3,000
Compression Ratio	10.0:1
Valvetrain	Ti-VCT DOHC
Valve Operation	Roller-finger follower
Bore & Stroke (in.)	3.45 x 3.7
Main Bearings	6
Induction	Single twin-scroll turbocharger
Fuel System	Direct-injection
Fuel Requirement (octane)	87 (min.)

CAPABILITY NOTE: Horsepower and torque are independent attributes and may not be achieved simultaneously.

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Powertrain

Fuel System Data

Sequential Electronic Fuel Injection	Direct-injection
Fuel Pump	Single electric in-tank high-pressure
	In-tank electric high-pressure engine-mounted booster
Fuel Filter	In-tank lifetime
Air Cleaner	Dry element, replaceable

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Powertrain

Cooling System Specifications

Engine	Radiator Usage	Frontal Area (sq. cm.)	Core Size (mm)			Fins Per dm	Cooling System Cap. (liters)	Fans	
			Height	Width	Core			Diameter (mm)	No. of Blades

2.3L EcoBoost I-4	Standard	39.3	664.6	590	28	75	11.5	500	7
	Trailer Tow	39.3	664.6	590	28	75			

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Powertrain

Transfer Case Specifications

Shift Type	Electric Shift-On-the-Fly (ESOF)
Gear Type	2-speed planetary gears
Lubricant Capacity (qt.)	1.3 – 1.5
Gear Ratio — High	1.00:1
Gear Ratio — Low	2.72:1
Case Material	Magnesium

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs

Chassis

Brake Specifications
Frame Specifications
Front Axle Specifications
Rear Axle Specifications
Shock Absorber Specifications
Spring Specifications — Front Coil
Spring Specifications — Rear Main Leaf, Parabolic Linear
Steering
Tire Specifications
Wheel Specifications

2023 Ranger > Specs > Chassis

Front Axle Specifications

Series/Model		Ranger 4x4
Type		Long-spindle double-wishbone, coil-over-shock independent front suspension
Max. Rating @ Ground (lbs.)		3,130
Upper Control Arm	Material	Stamped steel
Lower Control Arm	Material	Stamped steel
Spring	Type	Coil-over-shock, computer-selected
Ball Joints		Lubed-for-Life
Spindle	Material	Cast-aluminum body with forged-steel stem
Wheel Bearings	Type	Self-retained tapered roller (GEN II cartridge)

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Chassis

Rear Axle Specifications

Series/Model		Ranger 4x2		Ranger 4x4	
Max. Rating @ Ground (lbs.) (Engine)		3,500		3,370	
Make		Standard	Electronic-locking	Standard	Electronic-locking
Axle Ratios (:1)		3.73	3.73	3.73	3.73
Ring Gear	Pitch Diameter (in.)	8.66	8.66	8.66	8.66
Housing	Type	Cast center			
	Cover Attachment	Bolted			
Lubricant Capacity (pt.)		3.8	3.4	3.8	3.4
Wheel Bearings	Type	Straight roller			
Gears	Type	Hypoid			
	Material	Alloy steel			
Pinion	Mounting	Overhung			
Differential	Type	2-pinion			
	Bearings	Tapered roller			

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Chassis

Brake Specifications

Type	Model	Rotor Dia. (in.)		Brake Lining Segment	Area (sq. in.)/Width (in.)/ Thickness (in.)	Caliper Piston Dia. (in.)	Gross Lining Area Per Axle (sq. in.)	Total Swept Area Per Axle (sq. in.)
		OD	ID					
Front								
Rotor (Disc)	All	12.2	8.2	Outboard	10.5/6.1/0.4	Dual 2.0	42.0	128.6
				Inboard	10.5/6.1/0.4			
Rear								
Rotor (Disc)	All	12.1	8.5	Outboard	4.7/5.1/0.4	Single 2.12	18.8	116.2
				Inboard	4.7/5.1/0.4			

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Chassis

Frame Specifications

Model	Wheelbase (in.)	No. of Crossmembers	Maximum Side Rail Section (in.)	Section Modulus (cu. in.)	Yield Strength (psi)
SuperCab 4x2	126.8	6	9.06 x 3.58 x .087	4.95	49,300
SuperCab 4x4	126.8	6	9.06 x 3.58 x .087	4.95	49,300
SuperCrew 4x2	126.8	6	9.06 x 3.58 x .087	4.95	49,300
SuperCrew 4x4	126.8	6	9.06 x 3.58 x 0.87	4.95	49,300

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Chassis

Shock Absorber Specifications

Usage	Front			Rear		
	No. Used	Piston Dia. (in.)	Type	No. Used	Piston Dia. (in.)	Type
Standard	2	1.77	Gas-pressurized	2	1.26	Gas-pressurized

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Chassis

Spring Specifications — Front Coil

Model	Combined Rating @ Ground (lbs.)	Normal Working Height of Spring (in.)	Inside Dia. (in.)	Wire Dia. (in.)	Deflection Rate @ Ground (lbs. per in. ea.)
Gas 4x2/4x4	2,850	12.0	3.75	.619	314
	3,000	12.0	3.75	.640	354
	3,150	12.0	3.75	.659	394
	3,225	12.0	3.75	.678	433

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Chassis

Spring Specifications — Rear Main Leaf, Parabolic Linear

Comb. Rating @ Ground	Number of Leaves	Total Thickness @	Flat Length[1]	Width	Deflection Rate (lbs. per

(lbs.)		Pad (in.)	(in.)	(in.)	in./spring)
3,370	1 + 1 (parabolic main plus helper leaf)	1.49	52	2.36	250/400

(1) Length measured at bushings, center to center.

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Chassis

Steering

Cab	Wheelbase (in.)	EPAS Rack-and-Pinion Power Steering[1]		Turning Diameter (ft.) Curb to Curb
		Rack Speed (mm per revolution)	Vehicle Steering Ratio	
SuperCab	126.8	49.6	17.7:1	42.0
SuperCrew	126.8	49.6	17.7:1	42.0

(1) All gears include nibble damper.

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Chassis

Tire Specifications

Size	Rim Width (in.)	Section Width (in.)	Static Loaded Radius (in.)
255/70R16 all-season BSW	7.0	10.04	13.50
255/65R17 all-season BSW	8.0	10.44	14.61
255/65R17 all-terrain BSW	8.0	10.44	14.61
265/65R17 all-terrain OWL	8.0	10.71	13.94
265/60R18 all-terrain BSW	8.0	10.71	14.02
265/60R18 all-terrain OWL	8.0	10.71	14.02
LT265/70R17 all-terrain BSW	8.0	10.67	14.63
LT265/65R17 all-terrain OWL	8.0	10.71	13.94
265/60R18 all-season BSW	8.0	10.71	14.02
255/70R16 (spare) all-season BSW	6.5	9.83	13.50
265/65R17 (spare) all-terrain OWL	7.5	10.51	13.94
LT265/70R17 (spare) all-terrain BSW	7.5	10.67	14.63

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Chassis

Wheel Specifications

Wheel Type	Wheel Size (in.)	Inset (in./mm)	No. of Studs	Bolt Circle (in./mm)	Maximum Wheel Capacity Load, Front/Rear (lbs.)
Silver-painted steel (64A)	16 x 7	2.16/55	6	5.5/139.7	3,130/3,571
Silver-painted aluminum (64Y)	17 x 8	2.16/55	6	5.5/139.7	3,130/3,571
Black-painted aluminum (50U)	17 x 8	2.16/55	6	5.5/139.7	3,130/3,571
Magnetic-painted aluminum (64D)	17 x 8	2.16/55	6	5.5/139.7	3,130/3,571
Magnetic-painted aluminum (91T)	17 x 8	2.16/55	6	5.5/139.7	3.130/3.571
Chrome-like PVD aluminum (64P)	17 x 8	2.16/55	6	5.5/139.7	3,130/3,571
Chrome-like PVD aluminum (64F)	18 x 8	2.16/55	6	5.5/139.7	3,130/3,571
Machined aluminum with Magnetic-painted pockets (64J)	18 x 8	2.16/55	6	5.5/139.7	3,130/3,571
Machined aluminum with Stealth Gray-painted pockets (649)	18 x 8	2.16/55	6	5.5/139.7	3,263/4,079
Matte black-painted aluminum (76K)	18 x 8	2.16/55	6	5.5/139.7	3.263/4.079
Black-painted aluminum (76J)	18 x 8	2.16/55	6	5.5/139.7	3,263/4,079

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs

Special Applications

Trailer Towing/Camper Information

2023 Ranger > Specs > Special Applications

Trailer Towing/Camper Information

For additional towing information, refer to the 2023 RV & Trailer Towing Guide, available as a printable PDF on **eSourceBook**, or the vehicle Owner's Manual for more information.

2023 Ranger > Specs

Electrical

150-Amperes Alternator

4-/7-Pin Trailer Towing Wiring Harness

Alternator Specifications

Battery Applications

Cold Weather Recommendations

Light Specifications and Usage

Standard Lighting/Reflector Equipment

2023 Ranger > Specs > Electrical

Alternator Specifications

Output[1] (amperes)	150
Output (watts)	2,025

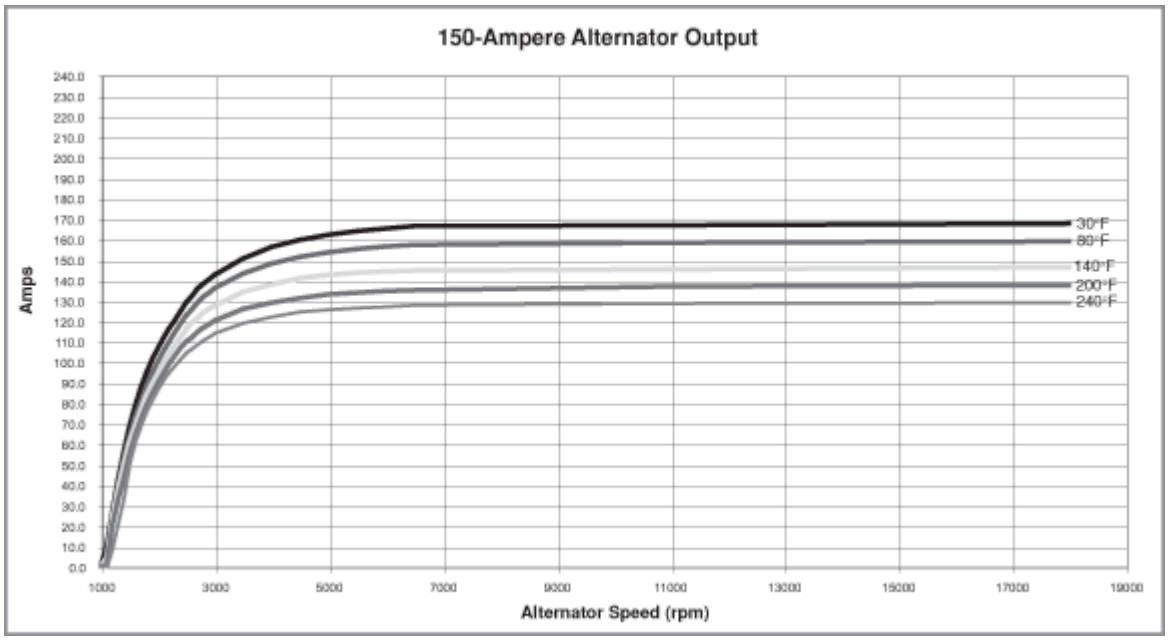
(1) Actual output is temperature- and application-dependent.

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Electrical > Alternator Performance Curves

150-Amperes Alternator

Engine	Pulley Ratio	Model Application
2.3L EcoBoost I-4	2.44:1	All Series



NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Electrical

Battery Applications

Ampere-Hour Rating	70	80
Cold-Cranking Amps at 0°F	760	800
2.3L EcoBoost I-4	XL/XLT[1]	LARIAT[1]

(1) Absorbent Glass Mat (AGM) battery.

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Electrical

Cold Weather Recommendations

Minimum Temperature	Equipment	
	HD Battery	Engine Block Heater
0° F	Suggested	Not Needed
-10° F	Recommended	Suggested
-20° F	Recommended	Recommended
Below -20° F	Strongly Recommended	Strongly Recommended

DEFINITIONS

Suggested: Helpful, but not needed.

Recommended: Could improve reliability in less-than-ideal conditions.

Strongly Recommended: Will give definite improvement over the standard components.

HD Battery: Higher-capacity battery available. (Usage varies by model.)

Engine Block Heater: Available equipment for all engines. (Usage and heater capacity vary with engine requirements.)

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Electrical

Standard Lighting/Reflector Equipment

Light Reflector	Application
Headlamps (Halogen/LED)	XL, XLT/LARIAT
Parking Lamps	All Series — Integral with turn signals
Front/Rear Turn Signals	All Series
Front Side Marker Lamps	All Series
Front Side Reflectors	All Series
Rear Side Reflectors	All Series
Rear Side Marker Lamps	All Series — integral with taillamps
License Plate Lamps	All Series
Two Combination Taillamps with Integral Stop, Turn Signal and Backup Lamps and Reflective Surface	All Series
Rear Reflectors	All Series
Front Daytime Running Lamps	All Vehicles Registered in Canada

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Electrical

Light Specifications and Usage

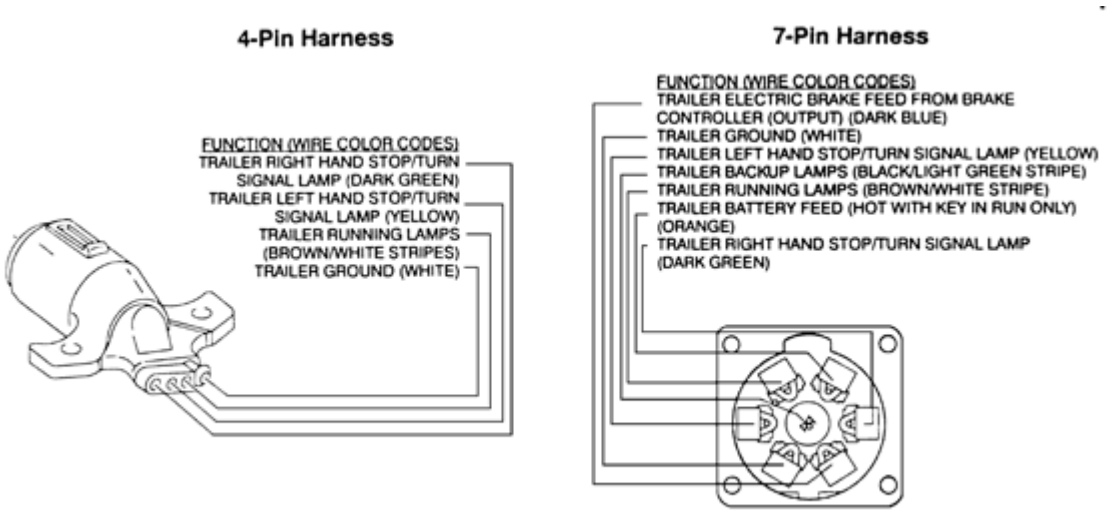
Light	Code	Description	Usage
Daytime Running Lamps	STD	Replaceable bulbs, Halogen (two)	All Vehicles Registered in Canada
Headlamps	STD	Replaceable bulbs, Halogen (two)	All Vehicles Registered in U.S. and Canada

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 Ranger > Specs > Electrical

4-/7-Pin Trailer Towing Wiring Harness

Circuit Number	Circuit Description	Color Code
RAT08	Ground	White
CAT17	Parking Lamps	Brown
CAT14	Trailer Battery Feed	Orange
CAT19	To Electric Brakes	Dark Blue
CAT09	RH Turn Signal and Stop Lamps	Dark Green
CAT06	LH Turn Signal and Stop Lamps	Yellow
CAT03/CAT16	Trailer Backup Lamps	Gray with Brown Stripe
CBP30	Front Brake Controller Running Lamp Feed/Park Lamp Feed	Yellow with Blue Stripe
CBP40	Rear Brake Controller Running Lamp Feed/Park Lamp Feed	Yellow with Green Stripe
CLS30	Brake Controller Running Lamp Feed/Park Lamp Feed	Violet with White Stripe
CCB08	Vehicle Stop Lamps	Violet with White Stripe
SBB18/SBB17	B+ to Electric Brake Controller	Yellow with Red Stripe


4-Pin Harness
FUNCTION (WIRE COLOR CODES)
TRAILER RIGHT HAND STOP/TURN SIGNAL LAMP (DARK GREEN)
TRAILER LEFT HAND STOP/TURN SIGNAL LAMP (YELLOW)
TRAILER RUNNING LAMPS (BROWN/WHITE STRIPES)
TRAILER GROUND (WHITE)
7-Pin Harness
FUNCTION (WIRE COLOR CODES)
TRAILER ELECTRIC BRAKE FEED FROM BRAKE CONTROLLER (OUTPUT) (DARK BLUE)
TRAILER GROUND (WHITE)
TRAILER LEFT HAND STOP/TURN SIGNAL LAMP (YELLOW)
TRAILER BACKUP LAMPS (BLACK/LIGHT GREEN STRIPE)
TRAILER RUNNING LAMPS (BROWN/WHITE STRIPE)
TRAILER BATTERY FEED (HOT WITH KEY IN RUN ONLY) (ORANGE)
TRAILER RIGHT HAND STOP/TURN SIGNAL LAMP (DARK GREEN)

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

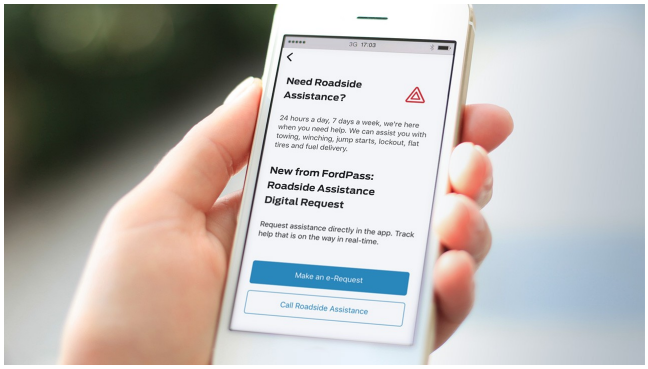
2023 Ranger > Specs

Warranties

24-HOUR ROADSIDE ASSISTANCE[1]

- Owners can call the toll-free number (1-800-241-3673) 24 hours a day
- FordPass[2] App key functionality
  - Tap the Service symbol on the bottom menu
  - Tap on 24/7 Assistance to make a request
  - Follow the prompts, which allow owners to identify the type of service they need
  - Owners can follow real-time progress of their request on the FordPass map
- Services available include flat tire change, towing to the nearest Ford dealership, fuel delivery, jump start and lockout assistance

- The FordPass App also offers a link to Accident Assistance under Vehicle Details/Vehicle Support
  - Accident Assistance includes information on what to do in an accident and about collision repairs
  - It also provides a collision shop locator that identifies the nearest Ford Certified Collision Center


Need Roadside Assistance?
24 hours a day, 7 days a week, we're here when you need help. We can assist you with towing, winching, jump starts, lockout, flat tires and fuel delivery.
New from FordPass: Roadside Assistance Digital Request
Request assistance directly in the app. Track help that is on the way in real-time.
Make an e-Request
Call Roadside Assistance

POWERTRAIN LIMITED WARRANTY

- Powertrain Limited Warranty for Ford vehicles is 5 years or 60,000 miles, whichever comes first
- That's an additional 2 years/24,000 miles (whichever comes first) of coverage beyond the bumper-to-bumper coverage for components such as the engine, transmission and front- or rear-wheel-drive parts

NEW VEHICLE LIMITED WARRANTIES

- 3-year/36,000-mile (whichever comes first) bumper-to-bumper; no deductible
- 5-year/60,000-mile (whichever comes first) Powertrain Limited Warranty
- 5-year/unlimited mileage (whichever comes first) Corrosion Perforation (aluminum panels don't require perforation)
- 5-year/60,000-mile (whichever comes first) Safety Restraint Warranty

(1) Roadside Assistance is included for certain owners and available to everyone for a per-service fee. Ford reserves the right to change program details without obligations. Ford Roadside Assistance is a complimentary offering to all Ford owners for up to 5 years or 60,000 miles (from the date of sale), whichever occurs first. Ford reserves the right to change program details without obligations.

(2) FordPass App, compatible with select smartphone platforms, is available via a download. Message and data rates may apply.

NOTE: See dealer for limited warranty details.

NOTE: See **www.motorcraftservice.com** for a link to a printable PDF of the Warranty Guide.

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